

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

| Work Order: _____ | | | DISPOSITION | | AGAINST DEPARTMENT/PROCESS | | | | | |
|---|------|------|---|---|---|--|--------------------------------------|--------------|--------------|--|
| Part No. _____ | | | Rework <input type="checkbox"/> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | |
| NCR No. _____ | | | Scrap <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coor. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | |
| | | | Use-as-is <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | |
| | | | Suspected Unapproved <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | |
| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector | |
| Design | | | | | | | | | | |
| Doc/Data | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | |
| Handling/Pre | | | | | | | | | | |
| Material | | | | | | | | | | |
| Operator | | | | | | | | | | |
| Offset/Setup | | | | | | | | | | |
| Process | | | | | | | | | | |
| Supplier | | | | | | | | | | |
| Training | | | | | | | | | | |
| Transport | | | | | | | | | | |
| Unapproved | | | | | | | | | | |
| FAULT CATEGORY | | | | | | | | | | |
| Landing Gear  Bending  Centre Not Concentric  Cracks  Crimp/Kink/Ripple/Wave  Cuffs  Crushing  Heat Treat  Inspection Strip in Tube  Marks/Chatter  Turning Sequence  Wave/Twist in Tube | | | | General  Bend  BOM/Route  Broken/Damage/Defect  Burrs  Contamination  Countersink  Cut Too Short  Drawing  Drill Holes  Finish  Fit/Function | | | | | | |
| | | | | <input type="checkbox"/> Folio/Program | <input type="checkbox"/> Outside Dimensions | <input type="checkbox"/> Pressure/Forced | | | | |
| | | | | <input type="checkbox"/> Grain | <input type="checkbox"/> Over/Under tolerance | <input type="checkbox"/> Set-up | | | | |
| | | | | <input type="checkbox"/> Hardware | <input type="checkbox"/> Part Incorrect | <input type="checkbox"/> Temperature/Cure | | | | |
| | | | | <input type="checkbox"/> Inspection Incomplete/Unqualified | <input type="checkbox"/> Part Lost/Missing | <input type="checkbox"/> Weld | | | | |
| | | | | <input type="checkbox"/> Instructions Incomplete/Unclear | <input type="checkbox"/> Part Moved | <input type="checkbox"/> Wrong Stock Pulled | | | | |
| | | | | <input type="checkbox"/> Misaligned/off center | <input type="checkbox"/> Positioned Wrong | <input type="checkbox"/> Other | | | | |
| | | | | <input type="checkbox"/> Mislabeled | <input type="checkbox"/> Power Loss/Surge | | | | | |
| | | | | <input type="checkbox"/> Misread | <input type="checkbox"/> | | | | | |
| | | | | <input type="checkbox"/> Off-set | <input type="checkbox"/> | | | | | |
| | | | | <input type="checkbox"/> Out of Calibration | <input type="checkbox"/> | | | | | |
| | | | | <input type="checkbox"/> Out of Sequence | <input type="checkbox"/> | | | | | |

| | | | | | | | |
|----------------|---------------|------------|--------------|-------|---------------|-------|-------|
| Item ID: | D3404-1 | Accept | *N900040100* | Setup | Start | *NS1* | |
| Revision ID: | | | | | | | |
| Item Name: | GHW/ Lug | | | | Stop | *NS2* | |
| Start Date: | 04/03/2014 | Start Qty: | 40.00 | *40* | Cust Item ID: | | |
| Required Date: | 04/03/2014 | Req'd Qty: | 40.00 | *40* | Customer: | | |
| Reference: | | | | | | | |
| Approvals: | Process Plan: | Date: | Tooling: | Date: | Run | Start | *NR1* |
| | QC: | Date: | SPC (Y/N): | Date: | | Stop | *NR2* |

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|---|---|----------------------|---------|----------|--------------|---------------|---------------|------------------|-----------------|
| 130 *130* QC | QC8- Inspect parts - second check | 0.00 | B.2 | 14 08 01 | | 42 | 0 | | DAS 08 08 |
| 140 *140* Packaging Packaging | Identify as per dwg & Stock Location: <u>WACO</u> | 0.00 | | | | | | | 42X EZ 14-8-5 |
| 150 *150* QC | QC21- Final Inspection - Work Order Release | 0.00 | | | | | | | 14/8/5 JJ |
| Quality Control | Memo | 0.00 | | | | | | | |

AM-8'S

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| | | | | | | | |
|-------------------|--|--|--|--|---------------------------------|--|--|
| Work Order: _____ | DISPOSITION | AGAINST DEPARTMENT/PROCESS | | | | | |
| Part No. _____ | Rework Scrap Use-as-is Suspected Unapproved | Skid-tube Machining Thermoforming Large Fab | Crosstube Small Fab Finishing Composite | Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier | Engineering Quality Other | | |
| NCR No. _____ | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Prep | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

FAULT CATEGORY

| | | | |
|--------------------------|----------------------|-----------------------------------|--------------------|
| Landing Gear | General | Outside Dimensions | Pressure/Forced |
| Bending | Bend | Folio/Program | Set-up |
| Centre Not Concentric | BOM/Route | Grain | Temperature/Cure |
| Cracks | Broken/Damage/Defect | Hardware | Weld |
| Crimp/Kink/Ripple/Wave | Burrs | Inspection Incomplete/Unqualified | Wrong Stock Pulled |
| Cuffs | Contamination | Instructions Incomplete/Unclear | Other |
| Crushing | Countersink | Misaligned/off center | |
| Heat Treat | Cut Too Short | Mislabeled | |
| Inspection Strip in Tube | Drawing | Misread | |
| Marks/Chatter | Drill Holes | Off-set | |
| Turning Sequence | Finish | Out of Calibration | |
| Wave/Twist in Tube | Fit/Function | Out of Sequence | |

Picklist Print

Page 1

March-04-14 3:03:04 PM

Work Order ID: 114357

114357

Parent Item: D3404-1

D3404-1

Parent Item Name: GHW/ Lug

Start Date: 04/03/2014

Required Date: 04/03/2014

Start Qty: 40.00

Required Qty: 40.00

Comments: IPP Rev:A05.09.01New issueKJ/JLM
IPP rev B 09.01.28 new geometry rev.C EC verified by:DD

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|--|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| M304B0.750X2.500 *M304B0 750X2 500* 304 BAR .750 X 2.50 | | Purchased | | No | | 100 | f | 0.7812 | 0.2291 | 9.646316 | | SL 147-29 | |

| <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |
|-----------------|----------------|-----------------|
| MAT007 | 0.7812 | |
| M128085 | 0.7812 | |

129240

9.7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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| Work Order: _____ | | | DISPOSITION | | AGAINST DEPARTMENT/PROCESS | | | | | |
|---|--|------|---|---|------------------------------------|--|--|--------------|--|--|
| | | | Rework <input type="checkbox"/> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | |
| | | | Scrap <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coor. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | |
| | | | Use-as-is <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | |
| | | | Suspected Unapproved <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | |
| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector | |
| Design | | | | | | | | | | |
| Doc/Data | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | |
| Handling/Pre | | | | | | | | | | |
| Material | | | | | | | | | | |
| Operator | | | | | | | | | | |
| Offset/Setup | | | | | | | | | | |
| Process | | | | | | | | | | |
| Supplier | | | | | | | | | | |
| Training | | | | | | | | | | |
| Transport | | | | | | | | | | |
| Unapproved | | | | | | | | | | |
| FAULT CATEGORY | | | | | | | | | | |
| Landing Gear | | | General | | | | | | | |
| <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function | | <input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence | | | | <input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge | | <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled | |
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|-----------------------|--------------|-------------|
| DART AEROSPACE LTD | Work Order: | 114357 |
| Description: GHW Lug | Part Number: | D3404-1 |
| Inspection Dwg: D3404 | Rev: C | Page 1 of 1 |

FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

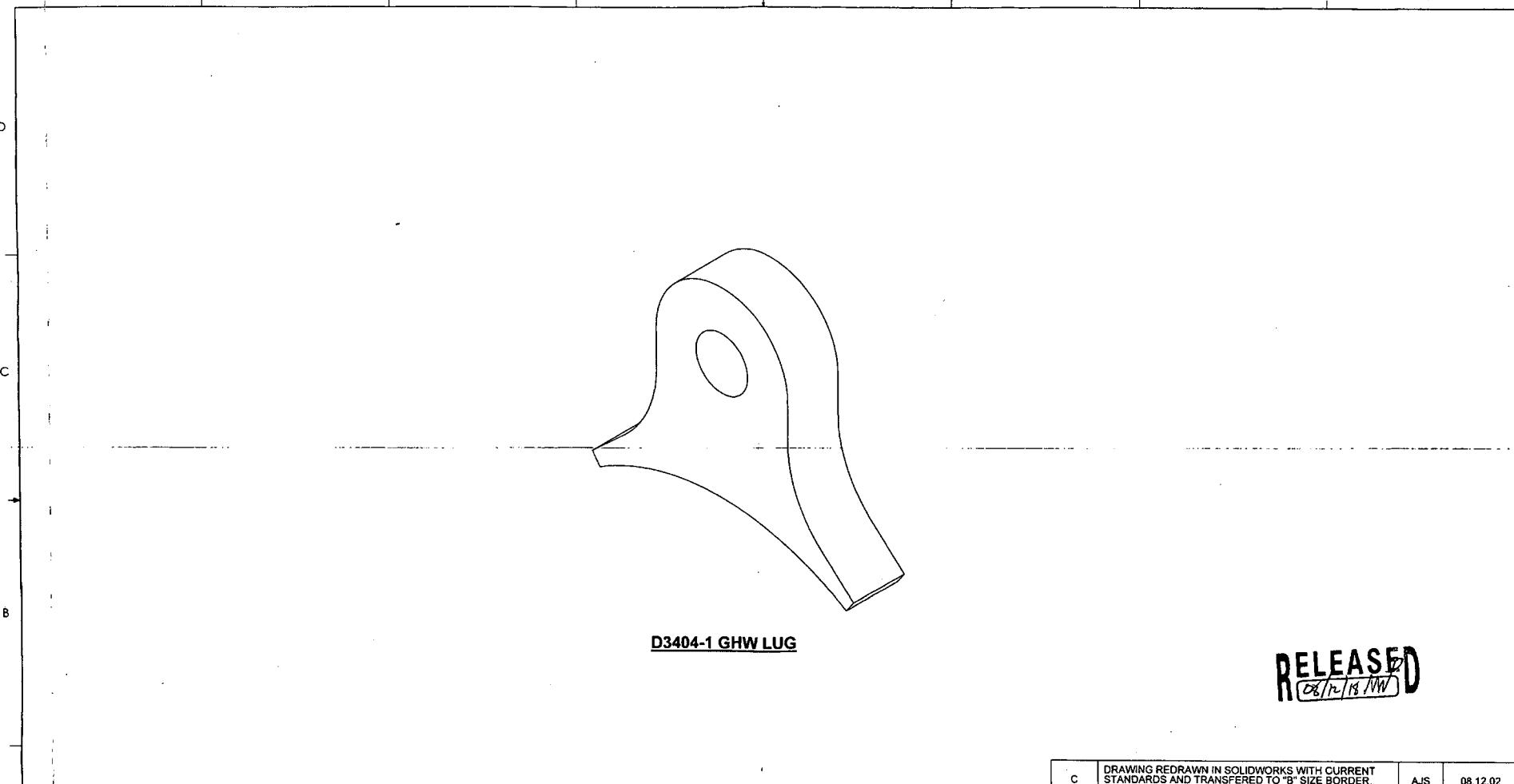
DAS 14-08-01
20

| | | | | | |
|--------------|-----------|-------------|---------------|---------------------|-----|
| Measured by: | SL / 9-89 | Audited by: | H.A. DAS 08 | Prototype Approval: | N/A |
| Date: | 14-1-30 | Date: | 14/08/01 9-89 | Date: | N/A |

| Rev | Date | Change | Revised by | Approved |
|-----|----------|-----------------------------------|------------|---|
| A | 06.04.12 | New Issue | KJ/JLM |  |
| B | 09.05.04 | Dimensions updated per Dwg Rev. C | KJ/DD |  |

114357
ML5
14-03-05

8 7 6 5 4 3 2 1



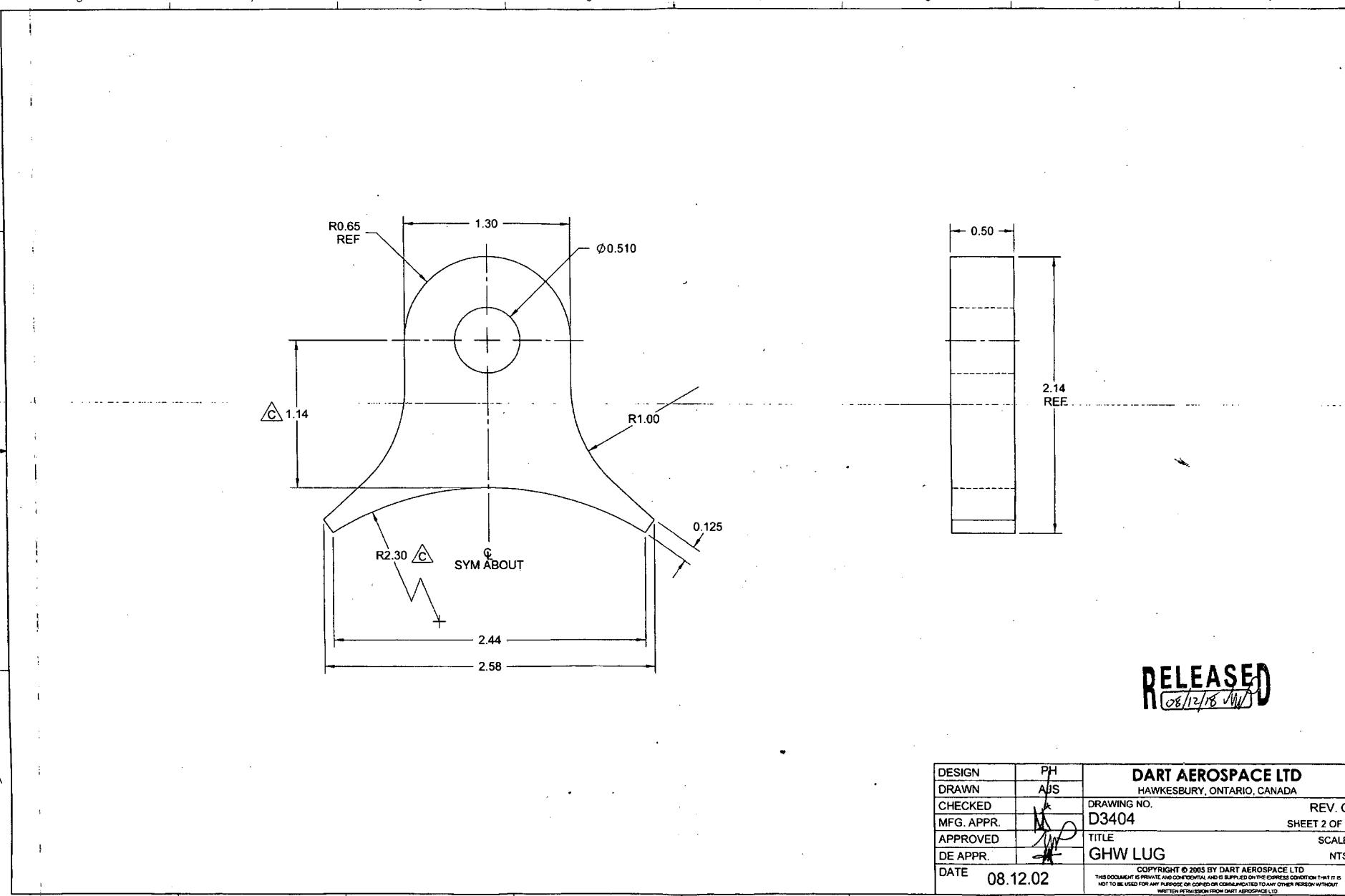
D3404-1 GHW LUG

RELEASED
08/12/18 MW

NOTES:
1) MATERIAL: AISI 304/316 STAINLESS STEEL BAR
PER MIL-S-5059 (ANNEALED) 2B FINISH OR AMS 5513/5524
REF. DART SPEC. M304B
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.030 TO 0.060 MAX
6) IDENTIFICATION: N/A
7) WEIGHT: 0.34 lbs

8 7 6 5 4 3 2 1

| | | | | |
|------------|---|--|--------------|----------|
| C | DRAWING REDRAWN IN SOLIDWORKS WITH CURRENT STANDARDS AND TRANSFERRED TO "B" SIZE BORDER. B5-2, 2.30 RAD WAS 2.13. C7-2 1.14 DIM WAS 1.20. | | AJS | 08.12.02 |
| B | UPDATE M-SPEC | | PH | 05.06.14 |
| A | NEW ISSUE | | PH | 05.03.08 |
| REV. | DESCRIPTION | | | |
| DESIGN | PH | DART AEROSPACE LTD | | |
| DRAWN | AJS | HAWKESBURY, ONTARIO, CANADA | | |
| CHECKED | | DRAWING NO. | REV. C | |
| MFG. APPR. | | D3404 | SHEET 1 OF 2 | |
| APPROVED | | TITLE | SCALE | |
| DE APPR. | | GHW LUG | NTS | |
| DATE | 08.12.02 | COPYRIGHT © 2005 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY OTHER PURPOSE OR COPIED OR DISCLOSED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD | | |



RELEASED
08/12/02

| | | | |
|------------|----------|-----------------------------|--------|
| DESIGN | PH | DART AEROSPACE LTD | |
| DRAWN | AUS | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | <i>M</i> | DRAWING NO. | |
| MFG. APPR. | <i>M</i> | D3404 | REV. C |
| APPROVED | <i>M</i> | SHEET 2 OF 2 | |
| DE APPR. | <i>M</i> | TITLE | SCALE |
| DATE | 08.12.02 | GHW LUG | NTS |

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